

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

26 JUN 1933

Index. No. **25357**
(For London Office only.)Havre Office
No 6977Computation of Freeboard for Steamer, Sailing Ship, Tanker
having **POOP, BRIDGE & FORECASTLE**

(Type of Superstructures.)

Ship's Name **S.S. "VILLE D'ARRAS"**
 Nationality and Port of Registry **French Havre**
 Official Number **-**
 Gross Tonnage **4836**
 Date of Build **1918-3rd**

Moulded Dimensions: Length Breadth Depth
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 Coefficient of fineness for use with Tables _____ tons

Port of Survey **Havre**Date of Survey **June 1933**Name of Surveyor **J.L. Davies**Particulars of Classification **100A1****ss. Hav. No. 3-730.****Depth for Freeboard (D)**

Moulded depth

Stringer plate

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) =

Depth correction(a) Where D is greater than Table depth
(D-Table depth) R =(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} =$$

$$\text{Ship's Round of Beam} =$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

$$\text{Percentage covered} \frac{S}{L} =$$

$$\frac{S_1}{L} =$$

$$\frac{E}{L} =$$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction =

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{6}L$ from A.P. ...		4					4		
$\frac{2}{6}L$ " ...		2					2		
Amidships ...		4					4		
$\frac{3}{6}L$ from F.P. ...		2					2		
$\frac{4}{6}L$ " ...		4					4		
F.P. ...		1					1		
Total ...									

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.
 Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

T =

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		

Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc
 Fresh Water Line " "
 Tropical Line " "
 Winter Line below " "
 Winter North Atlantic Line " "

Tropical Fresh Water Freeboard
 Fresh Water " "
 Tropical " "
 Winter " "
 Winter North Atlantic " "

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS, ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway			N ^o 1 on Foreboard Deck	N ^o 2 on Bridge Deck	N ^o 3 on Bridge Deck	N ^o 4 on Foreboard Deck	Hatch 13 X Bunker on Board Deck	Hatch on Bridg Deck Saddledeck		
Dimensions of Hatchway			24'-9" x 18'-0	24'-6" x 18'-0	24'-6" x 18'-0	33'-4" x 18'-0	6'-9" x 18'-0	4'-6" x 18'-0		
COAMINGS	{	Height above Deck	32"	30"	30"	32"	31"	9"		
		Thickness { Sides	1/2"	1 1/4"	7/16"	1/2"	3/8"	3/8"		
		Stiffeners ...	7 1/2" x 3" x 7/16 BA	7 1/2" x 3" x 7/16 BA	7 1/2" x 3" x 7/16 BA	7 1/2" x 3" x 7/16 BA	none	none		
		Brackets, Stays ...	6" x 3/8 BA	—	—	6" x 3/8 BA	none	none		
HATCH BEAMS	{	Number ...	3	3	3	5	—	—		
		Spacing ...	6'-2	6'-3	6'-3	5'-7 1/2	—	—		
		Scantling and Sketch			Same as V n ^o 2		none	none		
		Bearing Surface	3 1/2	—	—	—	—	—		
FORE AND AFTERS	{	Number ...	—	—	—	—	—	—		
		Spacing ...	—	—	—	—	—	—		
		Unsupported Lengths	—	—	—	—	—	—		
		Scantling* and Sketch	none	none	none	none	none	none		
Bearing Surface			—	—	—	—	—	—		
HATCH COVERS	{	Material ...	Pine 3"	—	—	—	Pine 3"	Pine 2 3/8		
		Thickness ...	—	—	—	—	—	—		
		How fitted	Fore and aft	—	—	—	—	Fore and Aft		
		Bearing Surface	3"	—	—	—	3"	3"		
Spacing of Cleats			2'-0	—	—	—	2'-0	2'-0		
Number of Tarpaulins			2	—	—	—	2	2		

*Are wood fore and afters steel shod at all bearing surfaces? —

Are battens and wedges efficient and in good condition? yes

Are tarpaulins in good condition and in accordance with rule requirements? yes

Are lashings provided in accordance with rule requirements? yes

Particulars of fiddley, funnel and ventilator coamings:— Hinged steel covers are fitted on Fiddley Ventilators which are level with Boat deck. The fiddley is protected by a deck house on the Bridge deck on the side of which is a tank door 1½" thick with sill 15" high leading to a passage communicating with the fiddley.

Particulars of Flush Bunker Scuttles:— Flush cast iron scuttles having bayonet joints are fitted on the bridge deck abreast of the Engine casing. These are provided with permanent chain attachments.

Particulars of Companionways :— *None*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

On Prop. Bridge and Forecastle decks the coamings are 1'-7" high.

On Freeboard deck in way of Wells the coamings are 3'-0" high.

All coamings are provided with strong wood caps and canvas covers.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Air pipes on Forecastle deck are	1'-6" high	} fitted with wood plugs and chain attachment.
" " " Bridge " "	2'-0" "	
There are no air pipes on well decks ✓		

Particulars of Gangway Cargo and Coaling Ports:— A coaling port is fitted on each side in the Bridge space consisting of a strongly framed hinged steel door secured by 3 strong latches of section $4\frac{1}{2} \times 1\frac{1}{2}$. The sill is 9" above the freeboard deck. An ash port $1\text{'-}9" \times 1\text{'-}9"$ also having sill 9" above the freeboard deck has a steel hinged door strongly framed and secured.

Particulars of Scuppers and Sanitary Discharge Pipes

Poop and Forecastle deck scuppers discharge on to the well decks.
 Bridge deck scuppers discharge at 6" below the bridge deck through pipes.
 Well deck scuppers " " " " Freeboard " "
 All Sanitary pipes discharge through side at 4'-0" below freeboard deck and have storm valves. ✓

Particulars of Side Scuttles: Side Scuttles are fitted in Sides of Prop. Bridge, and Forecastle
and are fitted with deadlights ✓

Particulars of Guard Rails:— In way of well decks, the Sheerstrake which extends 12" above deck is surmounted by 3 bar rails 3'-3" high having stanchions 4'-0" apart.

3 bar rails 3'-6" high with stanchions 4'-9" apart are fitted on Pop and Forecastle.

On Bridge Deck the bridge Sheerstrake extends 10" above deck and this is surmounted by 3 bar rails 3'-6" high with stanchions 5'-0" apart except ~~in~~ ^{at} breast of the deck house in way of which a bulwark is fitted.

This also applies to the E-boat decks.

Particulars of Gangways, Lifelines, etc. :—

Work gangways 2'-0" wide extend from Forecastle to Bridge and from Bridge to Poop.
They are fitted with 2 wire rails 3'-0" high with stanchions 5'-3" apart on each side.
The gangways are well supported.

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well						
Forward Well						

State position of each freeing port { After Well :—
(F. and A. position and height above deck edge) { Forward Well :—

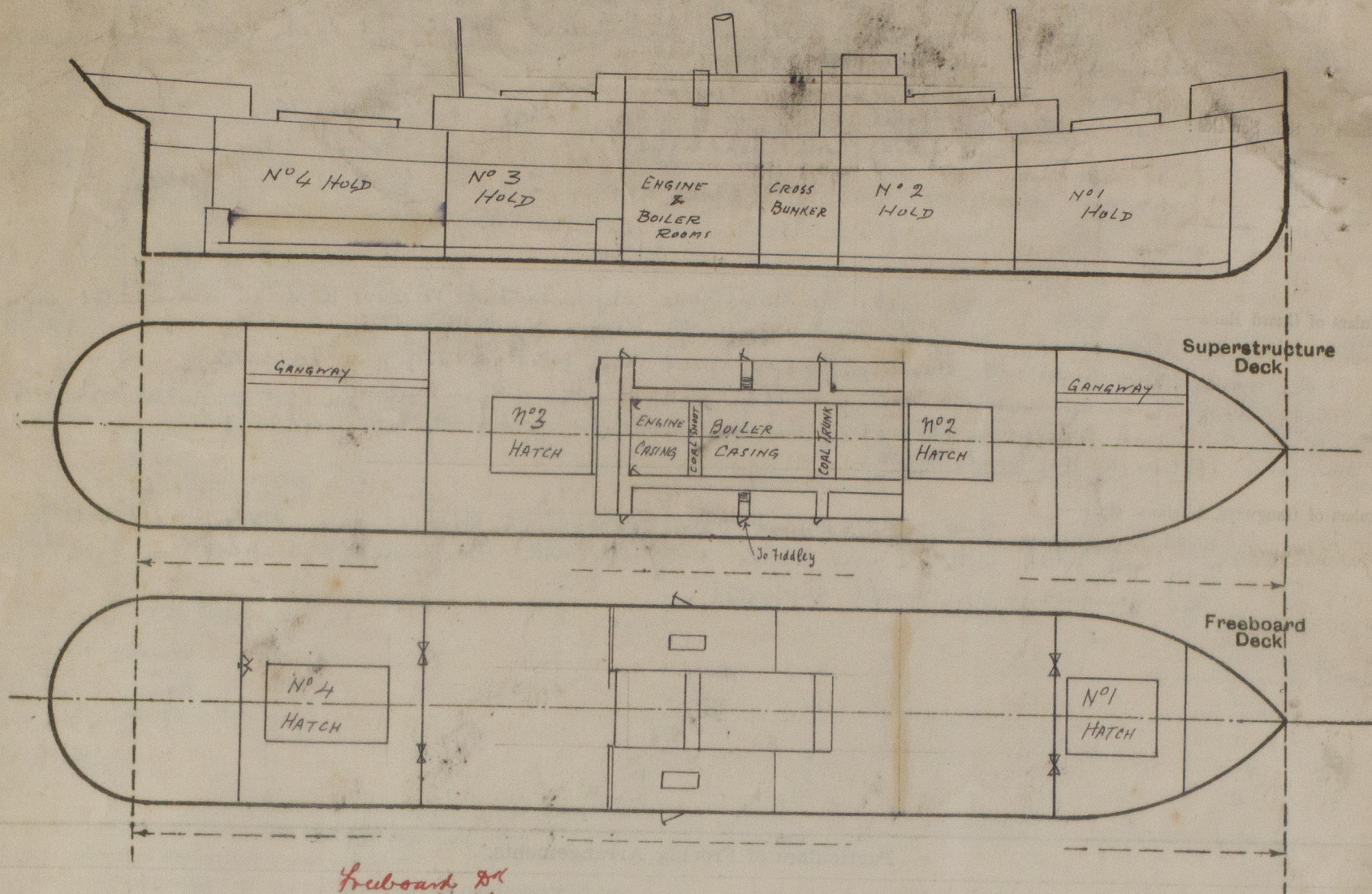
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :—

Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	Double	Steel	hinged doors with portable Centre support			4'-11" x 4'-3" inside	18"	
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead	5"	Storm	boards fitted in channels rivetted to Bulkhead.			5'-5" x 4'-0"	18"	
Bridge, Forward Bulkhead		Watertight	rolled steel plate with 2 stiffeners 5" x 3 1/2" x 7/16" angle.			4'-3" x 4'-0"	18"	
Forecastle Bulkhead	Hinged	Steel	door -			4'-10" x 2'-0"	18"	
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...								
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships ...								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	manipulated both sides.
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	Storm Boards extending full height of opening.
Bridge, Forward Bulkhead	Bolted plate (watertight)
Forecastle Bulkhead	hinged steel door opening from both sides.
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super-structure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships ...	

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



Freeboard 8' 6" within 12' 8" }
 Bunker Hatch 10' 0" x 3' 6" }
 Bimini hatches 3' 0" x 2' 6" }
 Coaming 9" covers, rest angles.
 battening arrangements
 have carpaulen in
 efficient condition

State any special features in the construction of the ship:—

The Owners state that they do not desire any reduction of freeboard.

[Signature]

Builder's name and yard number *The North of Ireland Shipbuilding Co. Ltd. Yard N° 69*

Names of sister ships *Yard N° 68.*

Owners *Grè. Havraise Pén de Nav. à Vap.*

Fee £ *Fr 700*

Received by me

Emps. 45



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